

12 Chapter 12 Mid-Chapter Test

(Lessons 12-1 through 12-4)

Part I Write the letter for the correct answer in the blank at the right of each question.

1. A cylinder is standing on one of its bases. It is sliced by a plane horizontally. What is the shape of the cross section?

A triangle	C circle	
B square	D rectangle	1. _____

2. Choose the correct formula for the surface area of a cone.

F $S = Ph + 2B$	H $S = \frac{1}{2}Pl + B$	
G $S = \pi r\ell + \pi r^2$	J $S = \pi r\ell + 2\pi r$	2. _____

3. The surface area of a prism is 120 square centimeters and the area of each base is 32 square centimeters. Find the lateral area of the prism.

A 184 cm ²	B 152 cm ²	C 86 cm ²	D 56 cm ²	3. _____
-----------------------	-----------------------	----------------------	----------------------	----------

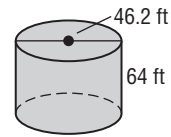
For Questions 4 and 5, refer to the solid figure. Round to the nearest tenth.

4. Find the lateral area.

F 9289.1 ft ²	H 10,965.4 ft ²	
G 9434.2 ft ²	J 12,641.8 ft ²	4. _____

5. Find the surface area.

A 9289.1 ft ²	B 9434.2 ft ²	C 10,965.4 ft ²	D 12,641.8 ft ²	5. _____
--------------------------	--------------------------	----------------------------	----------------------------	----------



Part II

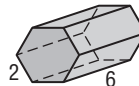
6. Draw the top view of this orthogonal drawing.



6. _____

For Questions 7 and 8, refer to the regular hexagonal prism.

7. Sketch the cross section from a vertical slice of the figure.
8. Find the surface area. Round to the nearest tenth.
9. A barrel in the shape of a right cylinder has a diameter of 18 inches and a height of 42 inches. Find the surface area of the barrel.

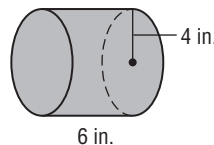


7. _____

8. _____

9. _____

10. Find the lateral area of the solid. Round to the nearest tenth.



10. _____